

FIG. 1  
PRIOR ART

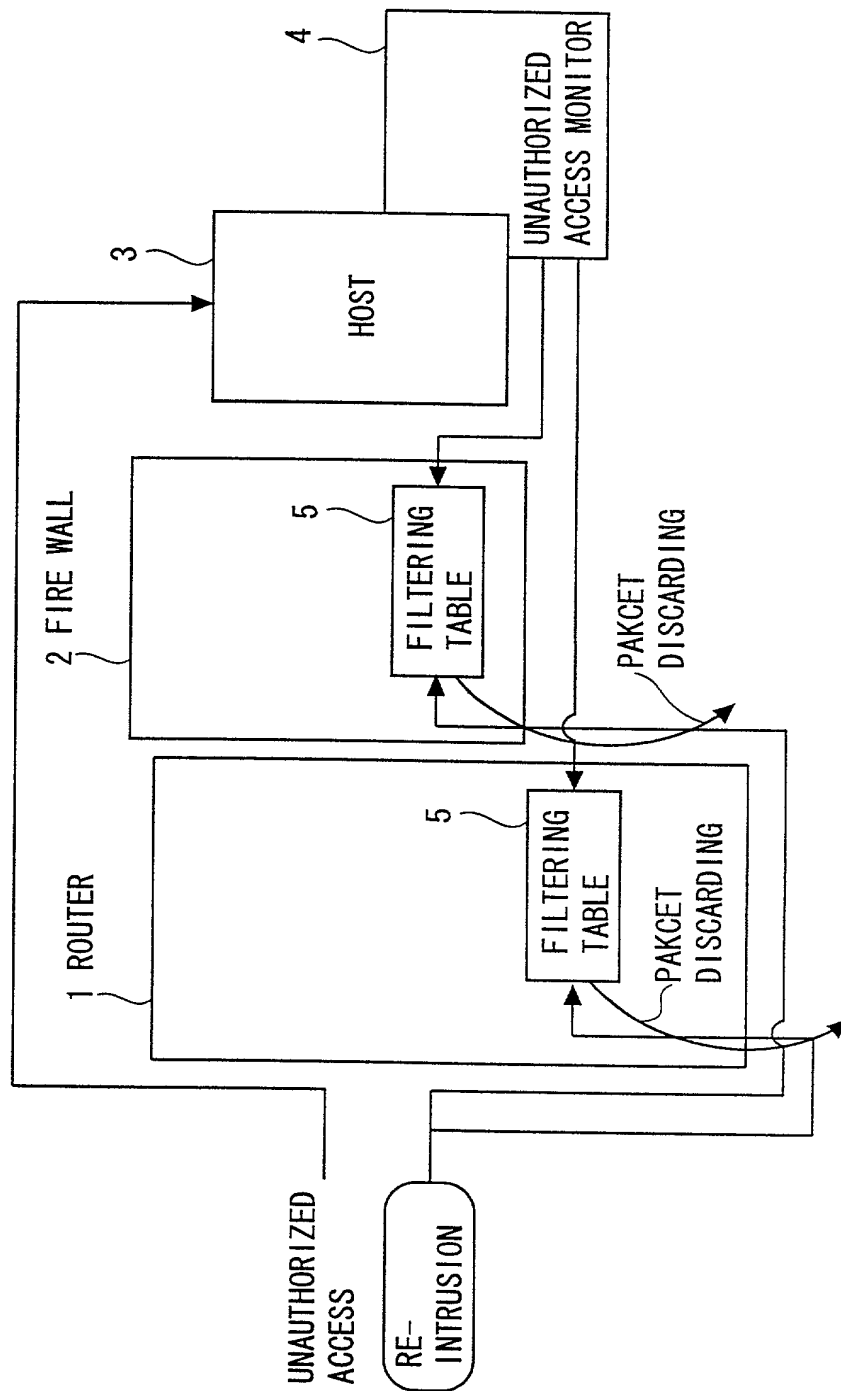


FIG. 2

PRIOR ART

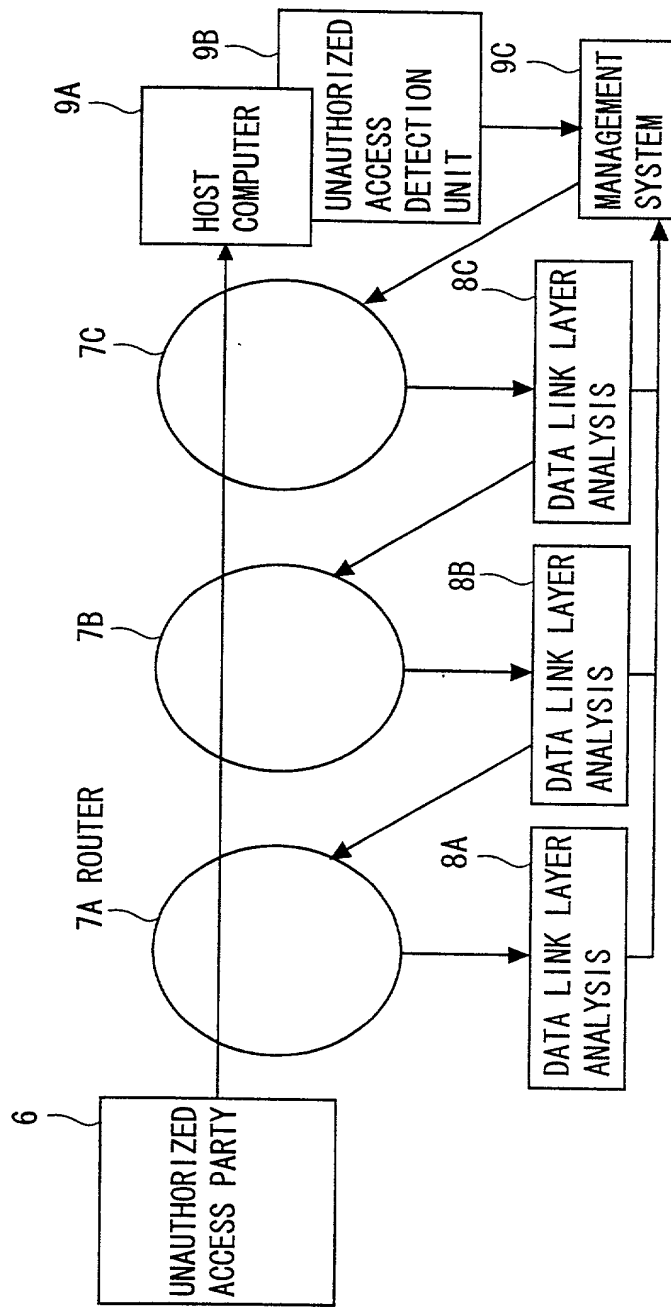


FIG. 3

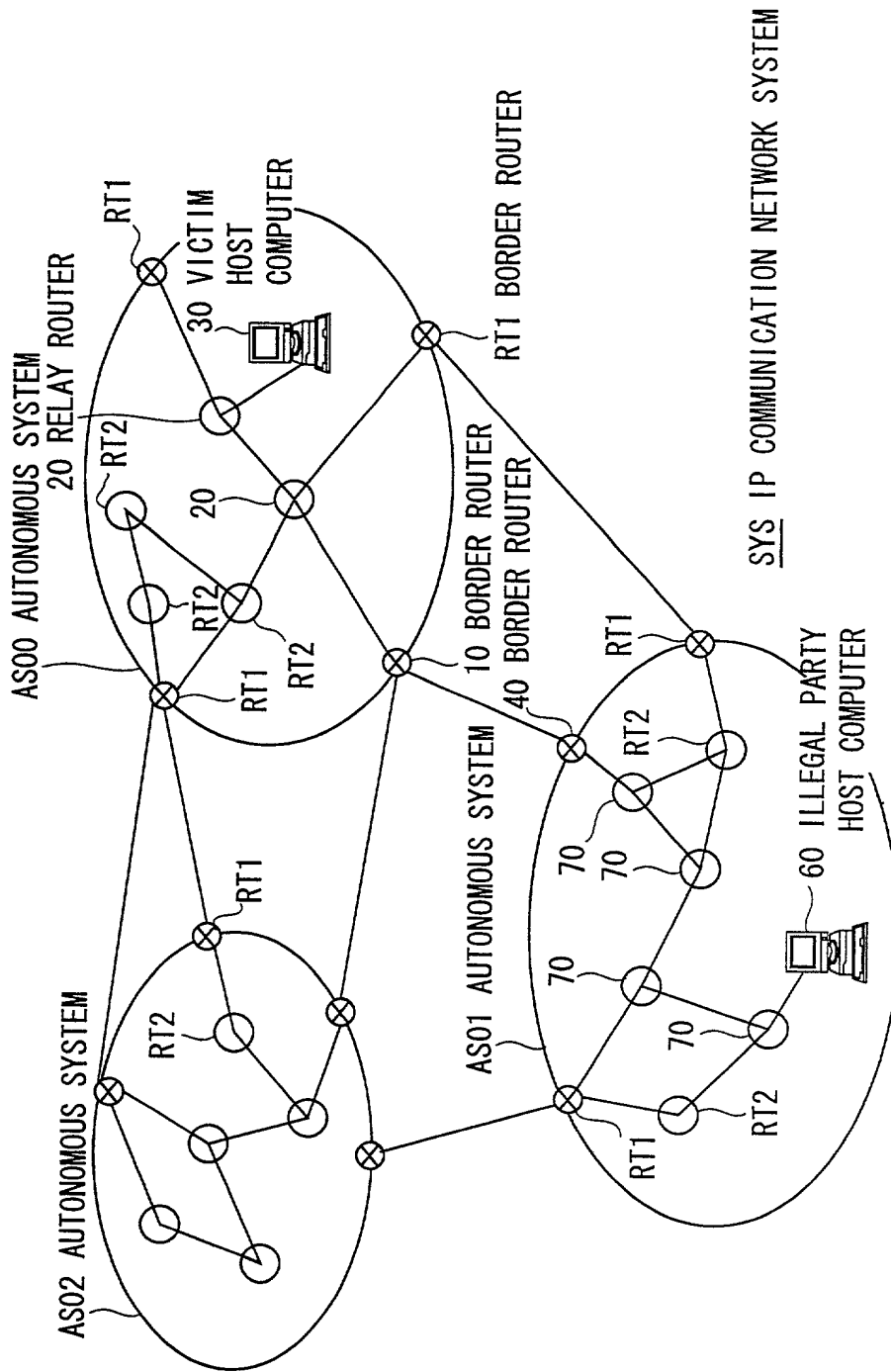




FIG. 5

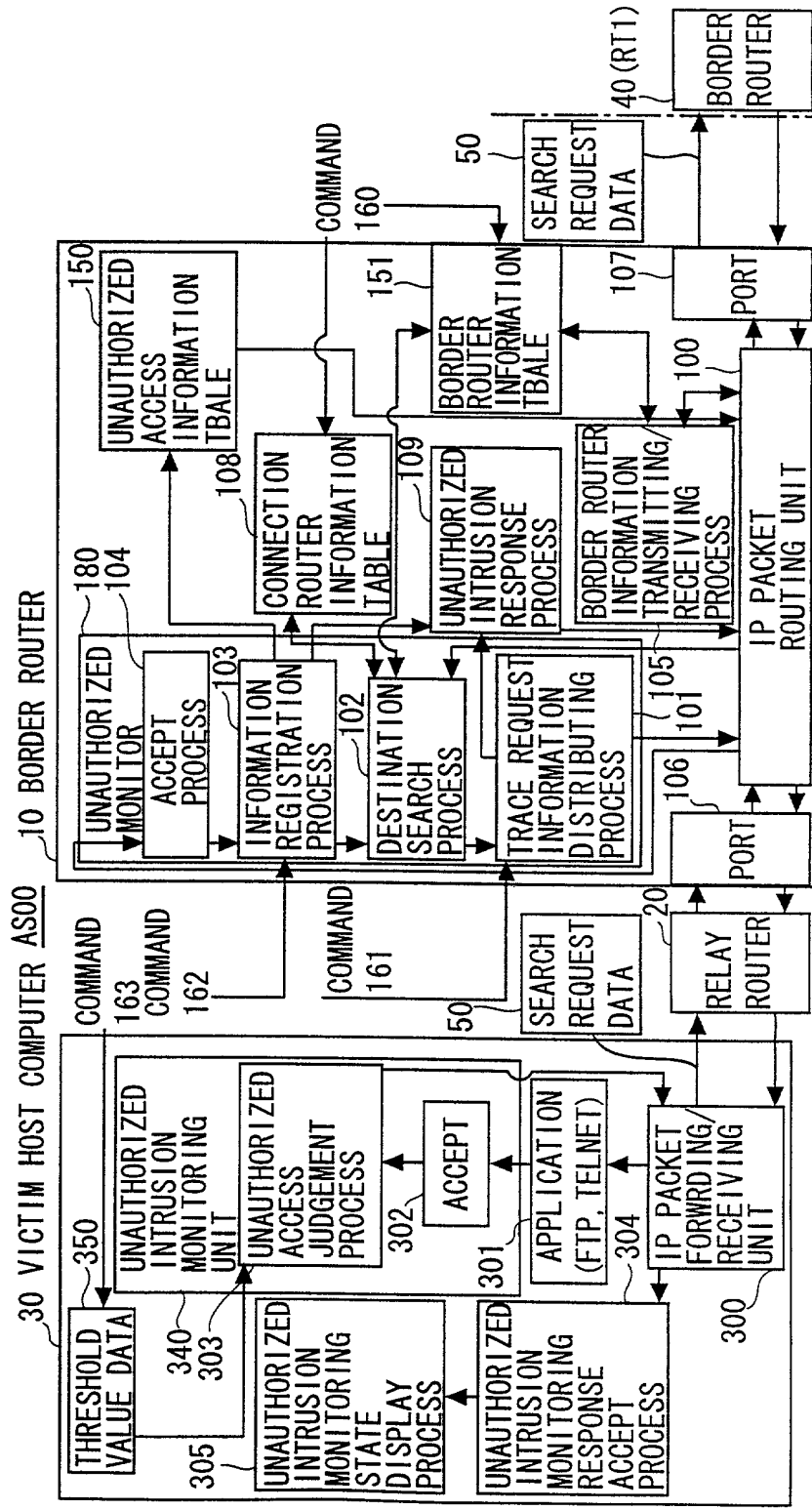


FIG. 6

50

SEARCH REQUEST DATA	
REQUEST TYPE	(REGISTRATION/CANCELLATION)
DESTINATION ROUTER IP ADDRESS	
SELF-ROUTER IP ADDRESS	
DESTINATION IP ADDRESS	
PROTOCOL TYPE	
PORT NUMBER	

FIG. 7

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UNAUTHORIZED ACCESS INFORMATION	
MONITORING PERIOD (TIME)	
DESTINATION IP ADDRESS	
PROTOCOL TYPE	
PORT NUMBER	

FIG. 8

350

THRESHOLD VALUE DATA

ICMP 50 TIMES/SEC (1)
TELNET 3 TIMES/SEC (1)
FTP 3 TIMES/SEC (1)
ICMP 80 TIMES/SEC (2)
FTP 3 TIMES/SEC (2)
⋮

FIG. 9

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BORDER ROUTER INFORMATION	
BORDER ROUTER IP ADDRESS #1	
BORDER ROUTER IP ADDRESS #2	
BORDER ROUTER IP ADDRESS #3	
BORDER ROUTER IP ADDRESS #4	

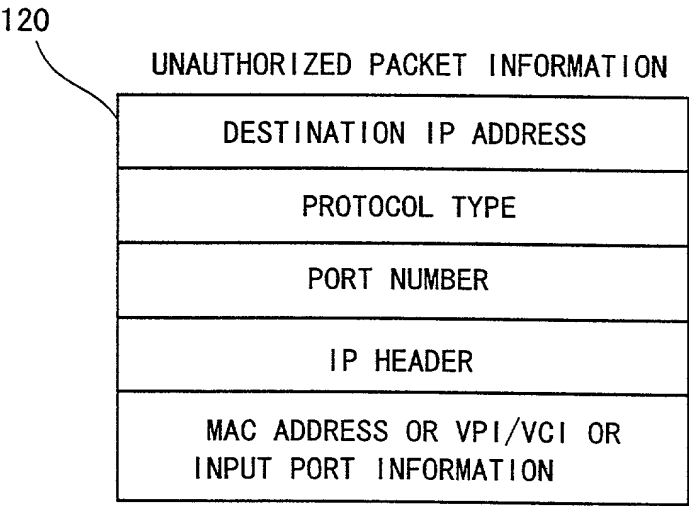
FIG. 10

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CONNECTION ROUTER INFORMATION

SELF-ROUTER INFORMATION	CONNECTION ROUTER INFORMATION
MAC ADDRESS #1	CONNECTION ROUTER IP ADDRESS #1
VPI/VCI#1	CONNECTION ROUTER IP ADDRESS #2
INPUT PORT INFORMATION #1	CONNECTION ROUTER IP ADDRESS #3
⋮	⋮

FIG. 11



*FIG. 12*

140 UNAUTHORIZED INTRUSION RESPONSE DATA

DESTINATION IP ADDRESS
SELF-ROUTER IP ADDRESS
PROTOCOL TYPE
PORT NUMBER
SELF-ROUTER AS NUMBER
RESPONSE TYPE (DISCOVERING OF UNAUTHORIZED ACCESS/MONITORING OF UNAUTHORIZED ACCESS)

FIG. 13

JUDGEMENT TYPE OF THRESHOLD VALUE DATA		ELEMENTS PER JUDGEMENT TYPE	
ICMP 50 TIMES/SEC (1)		ICMP 50 TIMES/SEC (1): JUDGED TO BE UNAUTHORIZED ACCESS WHEN ALL THE FOLLOWING CONDITIONS ARE COINCIDENT WITH AND CONDITIONS	
TELNET 3 TIMES/SEC (1)		UNAUTHORIZED ACCESS TRY COUNT	50 TIMES/SEC
FTP 3 TIMES/SEC (1)		APPLICATION IDENTIFIER	NO IDENTIFIER
ICMP 80 TIMES/SEC (2)		MESSAGE TYPE	ICMP ECHO
FTP 3 TIMES/SEC (2)		SAME USER JUDGEMENT	NEGATED
		SAME SESSION JUDGEMENT	NEGATED
		INPUT COMMAND	NO COMMAND
		ALARM FUNCTION	ALARMED
		MONITORING START TIME	ALL
		MONITORING END TIME	ALL
		TELNET 3 TIMES/SEC (1): JUDGED TO BE UNAUTHORIZED ACCESS WHEN ALL THE FOLLOWING CONDITIONS ARE COINCIDENT WITH AND CONDITIONS	
		UNAUTHORIZED ACCESS TRY COUNT	3 TIMES/SEC
		APPLICATION IDENTIFIER	TELNET
		MESSAGE TYPE	NOTHING
		SAME SESSION JUDGEMENT	JUDGED
		SAME USER JUDGEMENT	JUDGED
		INPUT COMMAND	PING
		ALARM FUNCTION	ALARMED
		MONITORING START TIME	01:00
		MONITORING END TIME	06:00

FIG. 14

360 UNAUTHORIZED INTRUSION MONITOR DISPLAY UNIT

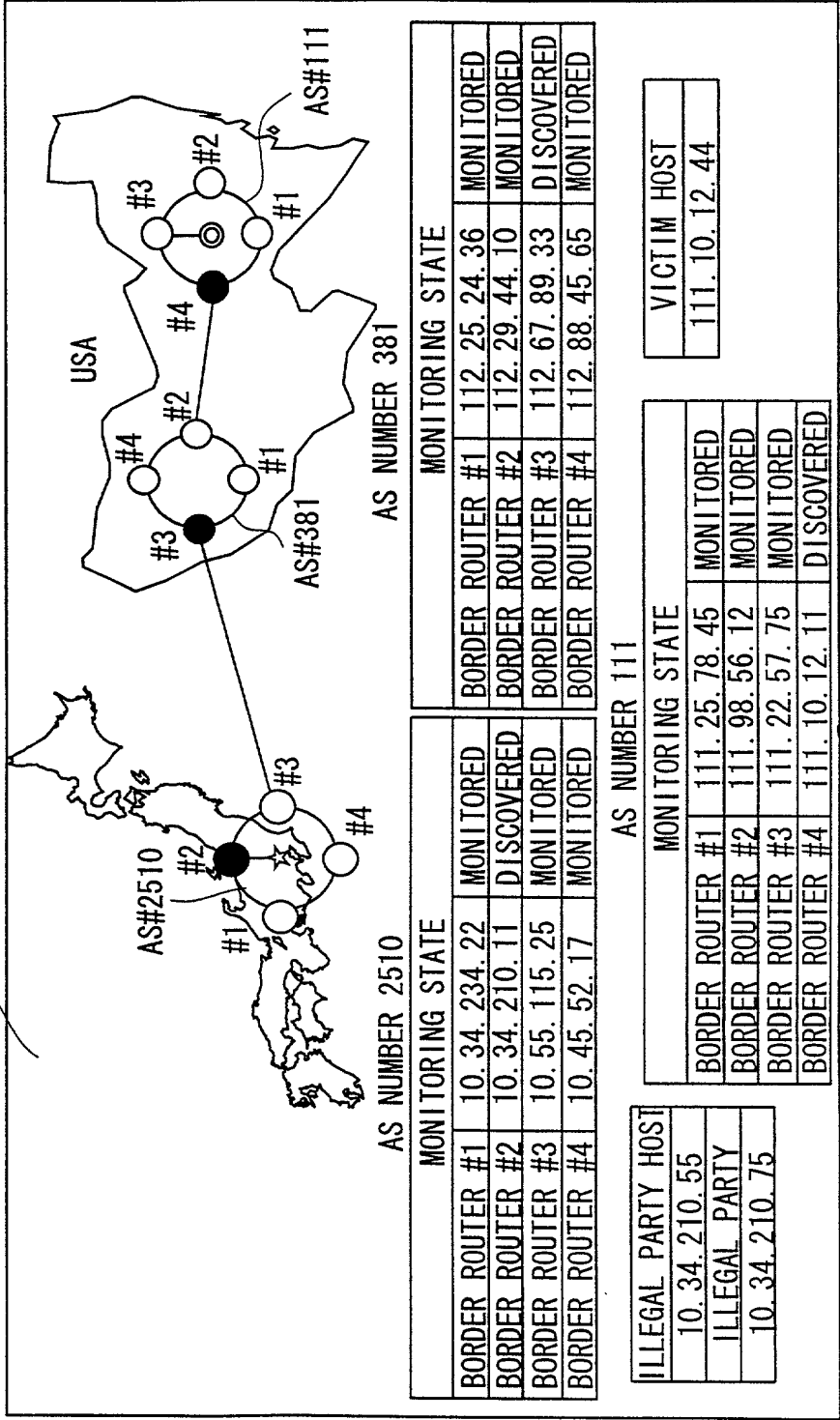


FIG. 15

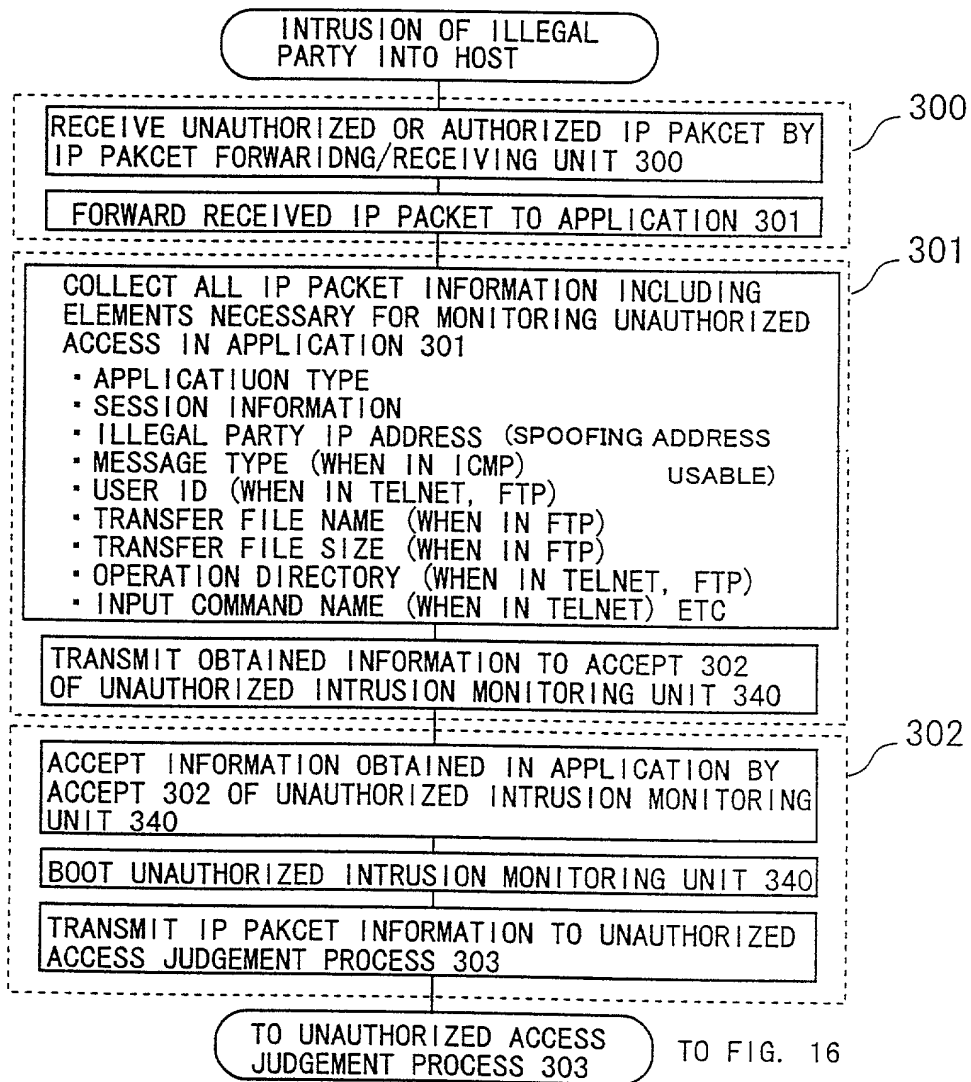


FIG. 16

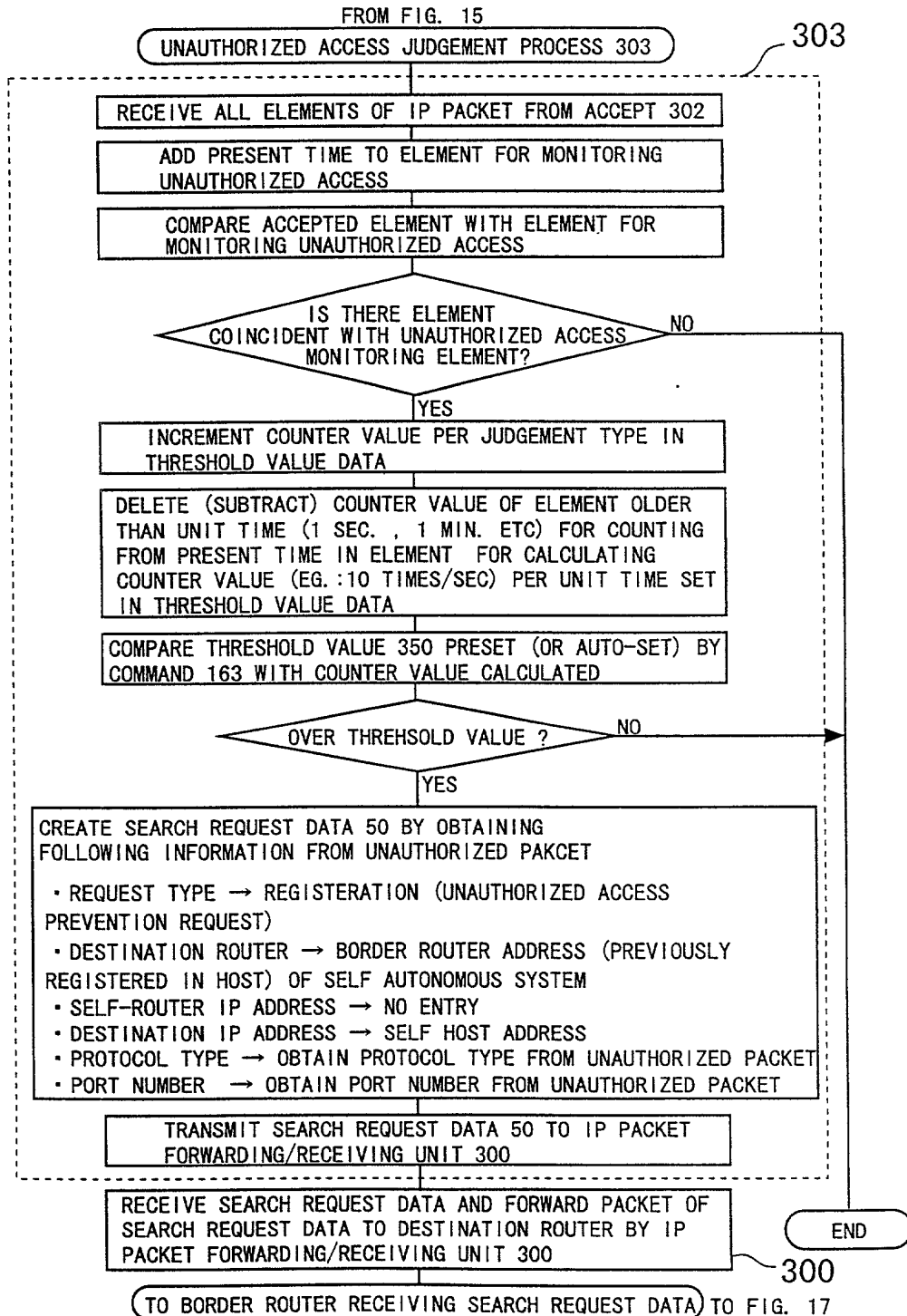


FIG. 17

FROM FIG. 16

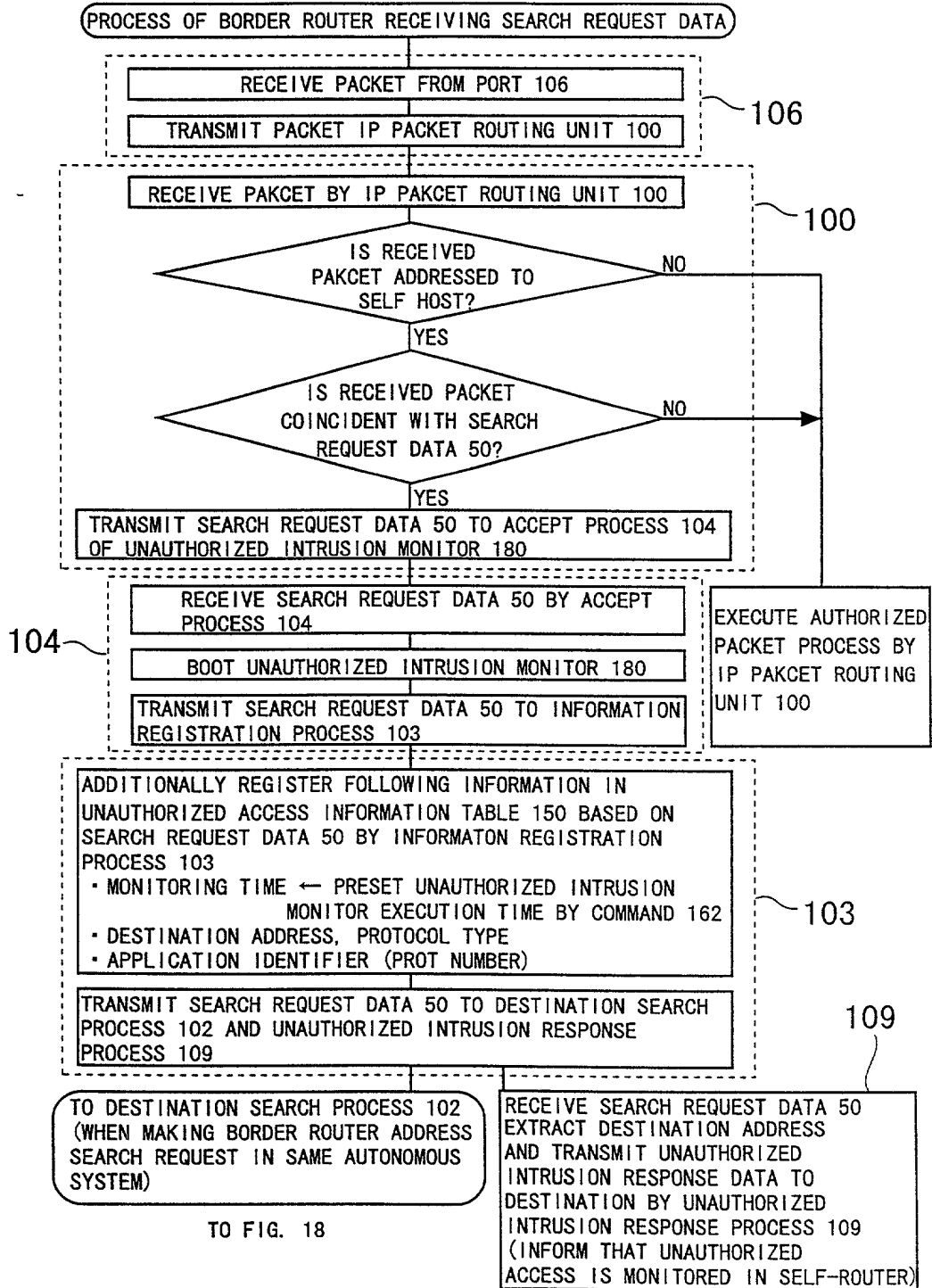
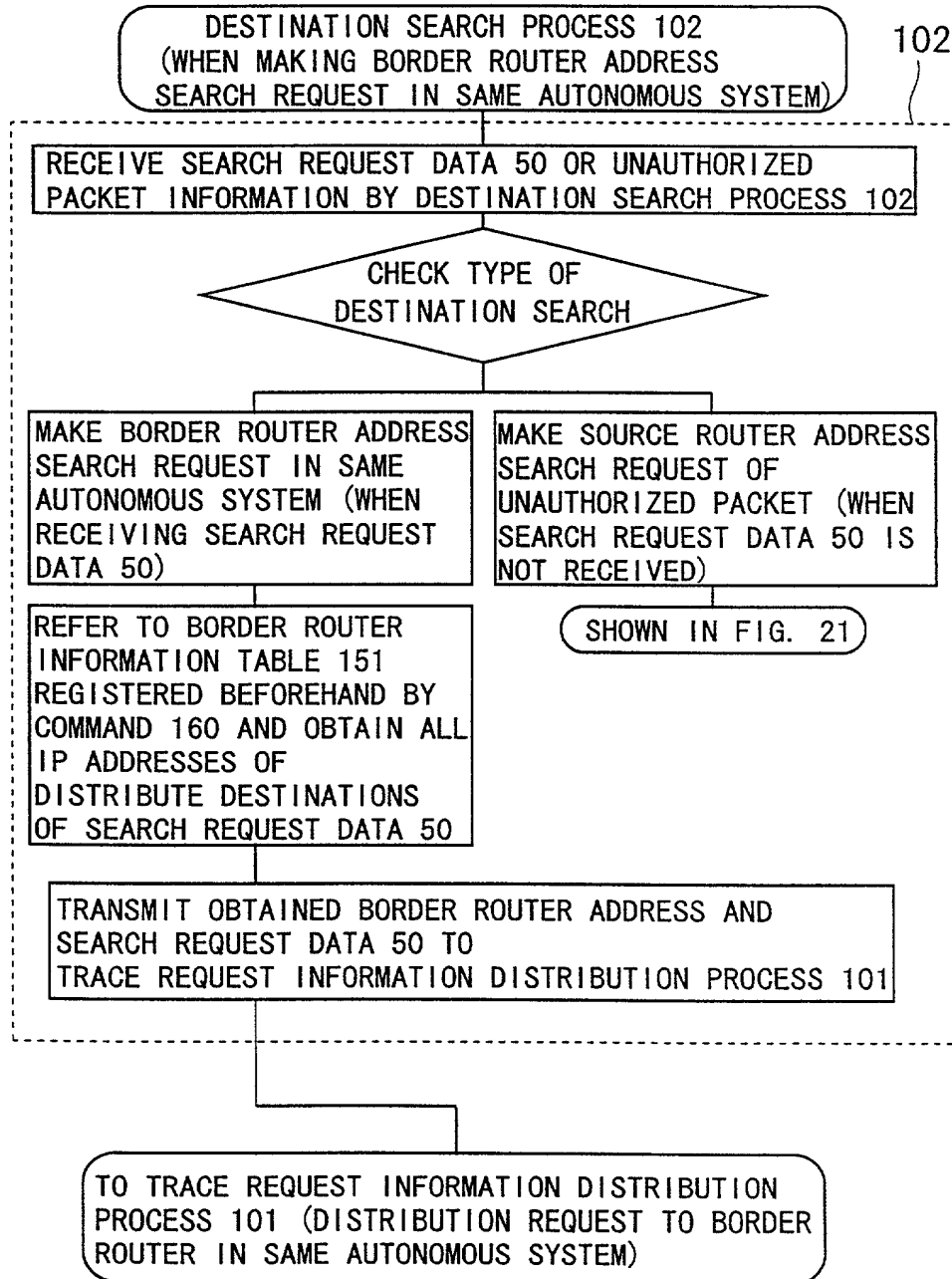


FIG. 18

FROM FIG. 17



TO FIG. 19

FIG. 19

FROM FIG. 18

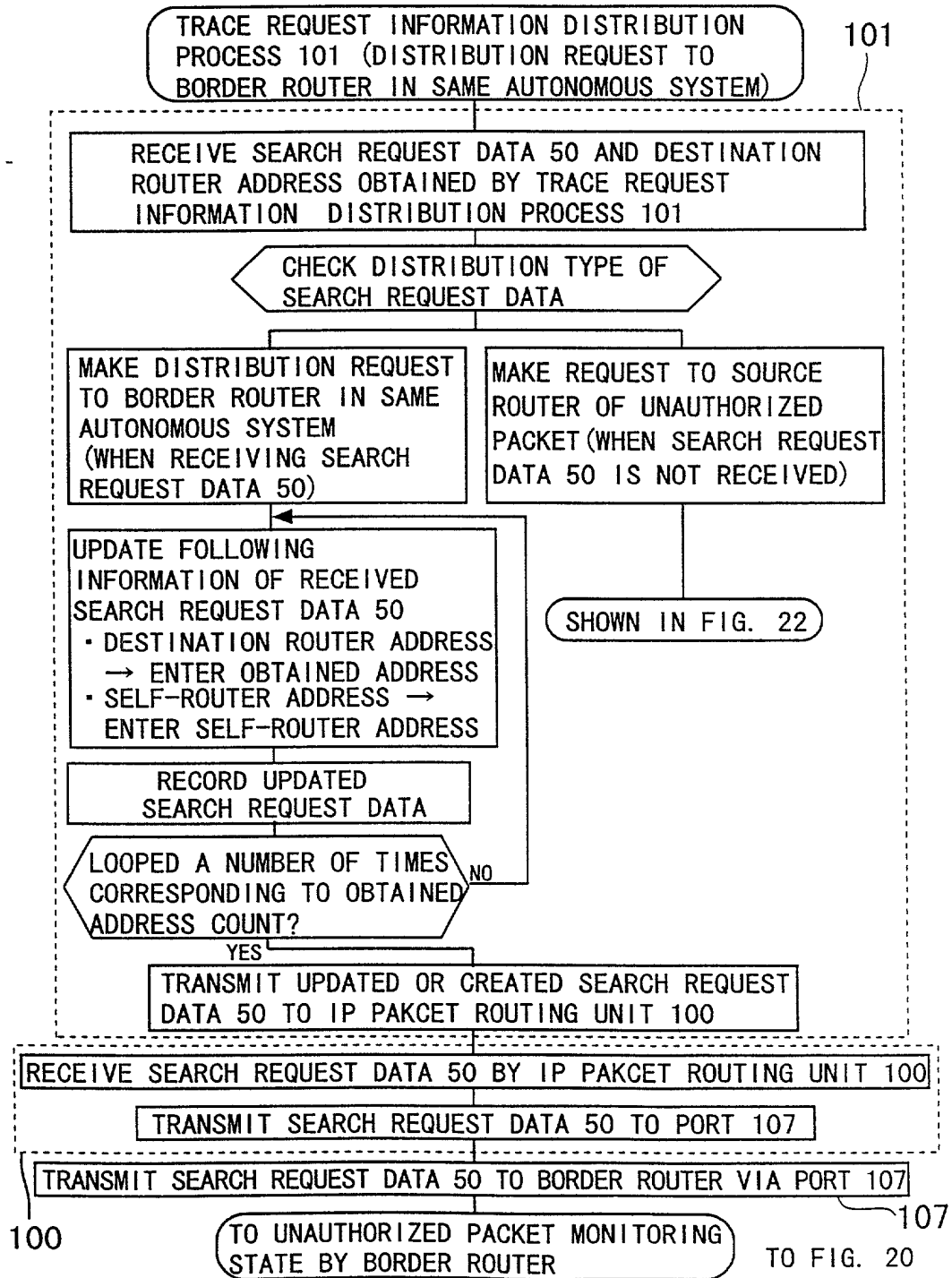
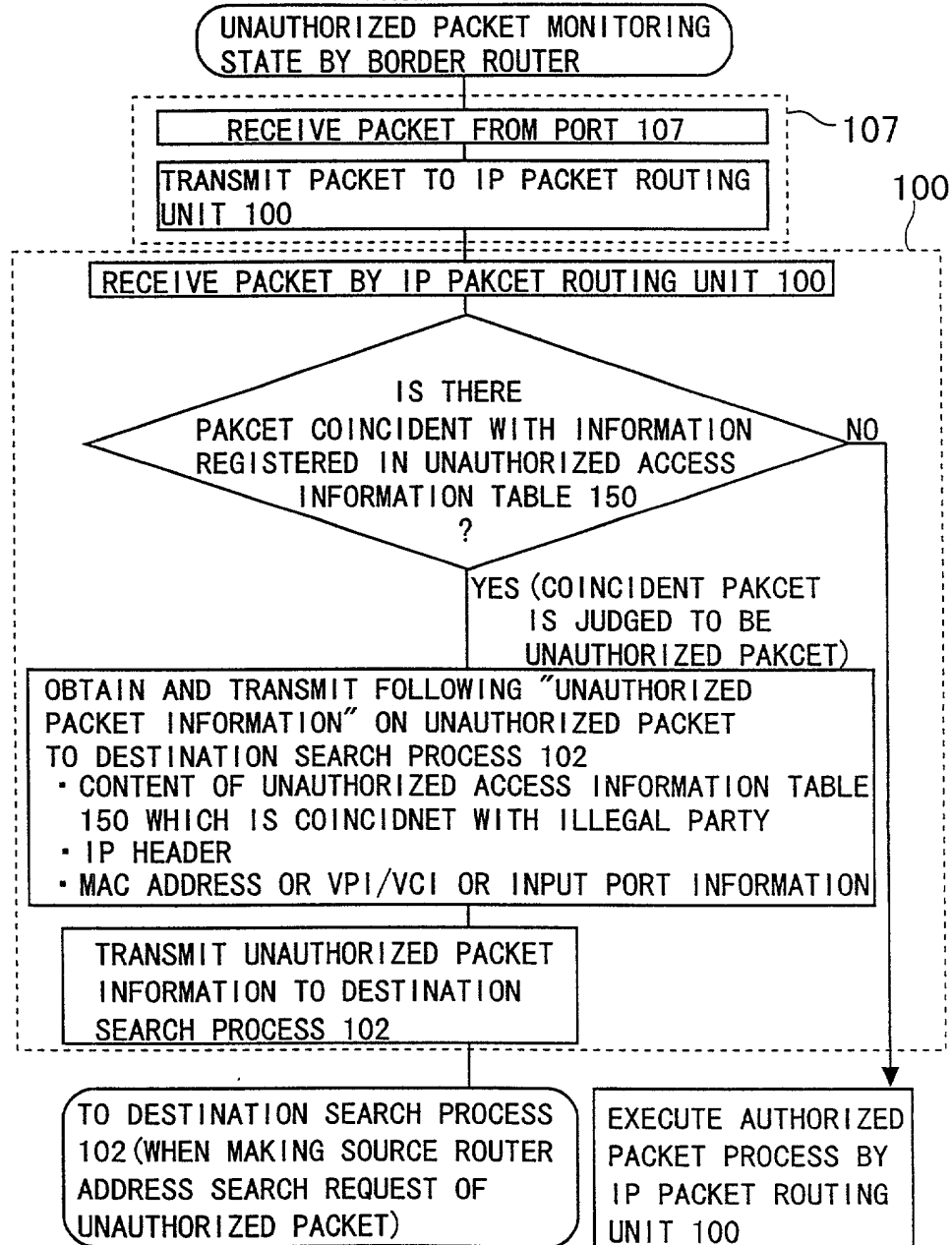


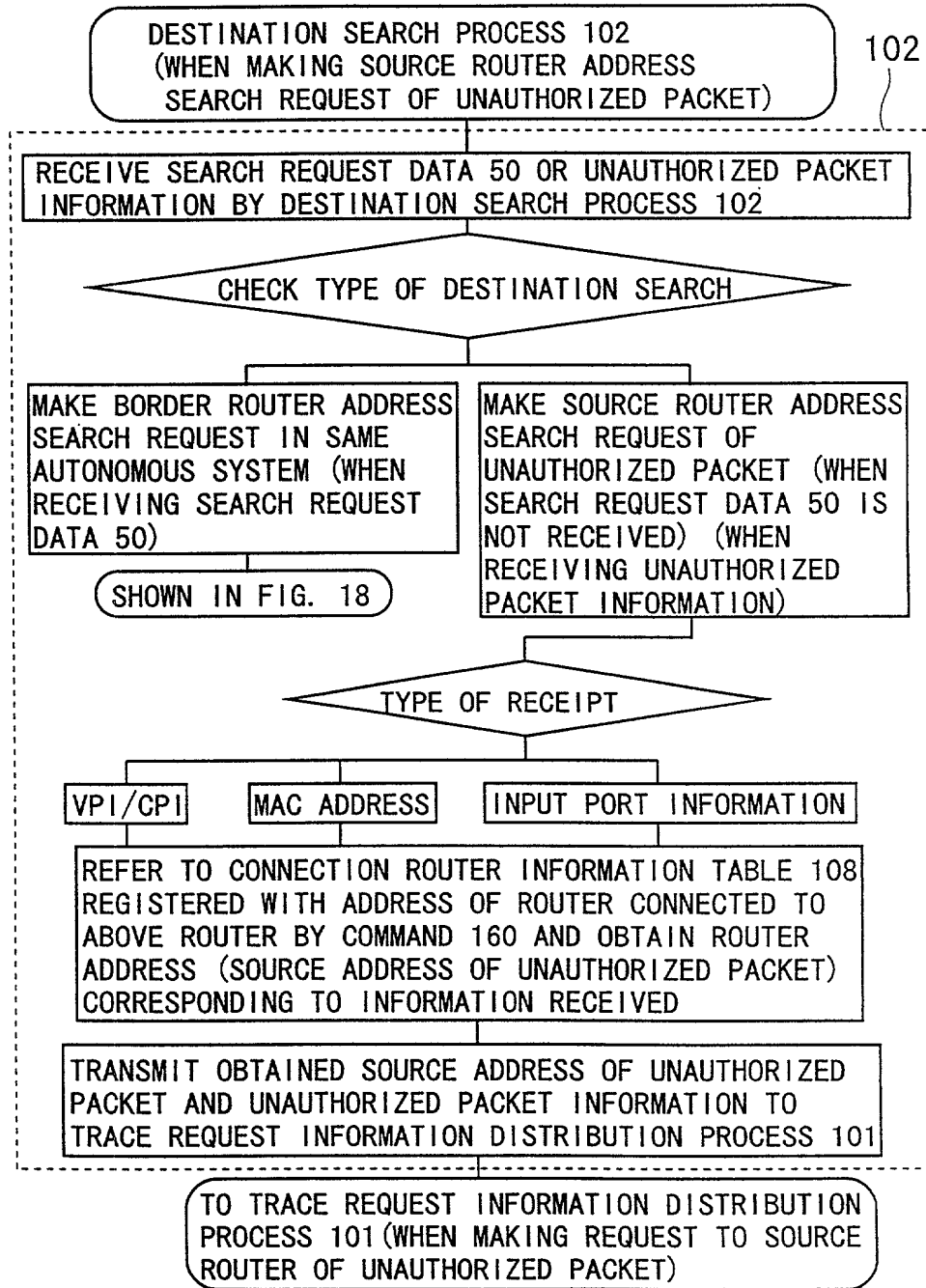
FIG. 20

FROM FIG. 19



TO FIG. 21

FIG. 21  
FROM FIG. 20



TO FIG. 22

FIG. 22

FROM FIG. 21

